

III MANUFACTURING PROCESSES FOR FOOTWEAR AND TIRES	Page 1 of 2
Division of Forensic Science IMPRESSION UNIT TRAINING MANUAL	Amendment Designator:
	Effective Date: 30-March-2004
<p style="text-align: center;">III MANUFACTURING PROCESSES FOR FOOTWEAR AND TIRES</p> <p>3.1 PURPOSE</p> <p>To aid the student in understanding the various processes of the manufacturing of footwear and tires and how these processes influence the various aspects of the examinations.</p> <p>3.2 OBJECTIVES</p> <p>3.2.1 To be familiar with the basic footwear outsole and tire construction methods.</p> <p>3.2.2 To understand the different types of outsole construction of footwear and the importance it could have on the identification process.</p> <p>3.2.3 To understand how manufacturing techniques can contribute in the decision making process of an examination.</p> <p>3.2.4 To know how design features in footwear outsoles and tire treads are used in comparative examinations.</p> <p>3.3 GOAL</p> <p>3.3.1 Upon completion of this segment of the training program, the student will possess knowledge and understanding of the manufacturing processes for footwear and tires.</p> <p>3.4 DISCUSSION</p> <p>3.4.1 A thorough knowledge of the manufacturing processes for footwear and tires is essential in the examination of footwear and tires.</p> <p>3.4.2 This segment of training will provide the student with the necessary knowledge to differentiate between defects created by the manufacturing processes and individual/accidental characteristics.</p> <p>3.4.3 Training in this topic will be supported by a tour to footwear and tire manufacturing facilities.</p> <p>3.5 EXAMINATION</p> <p>3.5.1 Successful completion of this segment of training will be determined by a written test.</p> <p>3.6 REFERENCES FOR TOPIC III</p> <ol style="list-style-type: none"> 1. <u>Footwear Impression Evidence</u>, Bodziak, 1990, pp 165-273 2. <u>Journal of Forensic Sciences</u>, "Manufacturing Processes for Athletic Shoe Outsoles", Bodziak, Vol. 31, No. 1, January 1986, pp 153-176 3. <u>Footwear Identification</u>, Cassidy, 1980, pp 67-89 4. <u>Art and Science of Footwear Manufacturing</u>, Cuccinelli, 1974, (Republished, <u>The Art and Science of Footwear Manufacturing</u>, Schachter, 1983) 5. <u>The Complete Handbook of Athletic Footwear</u>, Cheskin, 1987, pp 121-170 6. <u>The Encyclopedia of "HOW'S IT MADE," "Footwear Manufacture"</u>, 1978, pp 66-69 	

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<ol style="list-style-type: none"> 7. <u>Journal of Forensic Identification</u>, "The Individuality of Class Characteristics in Converse All-Star Footwear", Hamm, 1989, 39:5, 277-292 8. <u>Journal of Forensic Identification</u>, "Identification Value of Imperfections in Shoes With Polyurethane Soles in Comparative Shoeprint Examinations", Keijzer, 1990, 40:4, pp 217-223 9. <u>Leather and Shoes</u>, "Last: The Birthplace of Shoe Fashion", May 1974, pp 36-42 10. <u>Journal of Forensic Sciences</u>, "A Forensic Evaluation of the Air Bubbles Present in Polyurethane Shoe Outsoles as Applicable in Footwear Impression Comparisons", Music and Bodziak, 1988, 33:5, pp 1185-1197 11. <u>Sneakers</u>, Walker, 1979 12. <u>Tire Tracks and Tread Marks</u>, Given, Nehrich and Shields, 1977 13. <u>Tire Imprint Evidence</u>, McDonald, 1989 14. <u>R.C.M.P. Gazette</u>, "The Science of Tire Impression Identification", Nause, 1987, 49:1, pp 1-25 15. <u>Tread Design Guide</u>, Product Book, Tire Guides, Inc., Annual Publication 16. <u>Who Make It? and Where? Directory</u>, Product Booklet, Tire Guides, Inc., Annual Publication 	